Arizona Game and Fish Department NGTR 181: ABENWP: 1999 – 2000 Summary Report

Breeding Area	Status	Nest ²	Incubation Date	Eggs	Hatch Date	Young	Fledged	Fledge Date
	S	1	1/5-2/2	2+	2/8-3/18	2	12.2	5/29
Sheep*		29 1 22		ne eaglet	died 3/19-3/2	8.		
Suicide	S	1	<5/27	2+	<5/27	2+	2	<5/27
Sycamore*	S	2	1/8-19	2+	2/24	2	2	5/17, 5/24
Table Mountain	S	4	2/1-3/17	1+	3/17-4/15	1+	1	>6/14
Talkalai	F	4	1/5-2/2	1+		Failed:	3/18-4/29.	
Tonto*	S	2	1/5-25	2+	2/20	2	2	5/7
Tower*	S	8	1/20-21	2+	2/25-2/26	2	2	5/21, 5/21-6/14
Winkelman	U	-						ne e dunne

¹ Breeding area status codes (Postupalsky 1974): U=unoccupied, O=occupied, S=successful, F=failed.

^{*} Nests monitored by the Arizona Bald Eagle Nestwatch Program.

Table 2. Arizona bald eagle productive Number of BAs	401	Number of Active BAs	29
Number of Occupied BAs	36	Number of Failed Breeding Attempts	10
Number of Eggs	48+	Number of Successful Breeding Attempts	21
Nest Success = 21/36	0.58	Number of Young Hatched	40+
		Number of Young Fledged	31
Mean Brood Size = 31/21	1.48	Productivity = 0.58 x 1.48	0.86

We are unsure if the Suicide nest site is a new BA, or an alternate nest within the San Carlos or Coolidge BA. Adult identification in 2000 will clarify.

Nest numbers are from Hunt et al. 1992; Driscoll et al. 1992, 1995a, 1995b, 1997, 1998, 1999; Driscoll and Beatty 1994.

Breeding Area	Status	Nest ²	uctivity summary.	Eggs	Hatch Date	Young	Fledged	Fledge Date	
202 halind	S	4	1/31 - 3/23	1+	1/31 - 3/23	1	1	5/15 - 6/9	
Alamo	don, Died	dehydrai	Nestling last	observe	d at 8.5 weeks	old on 5/1	5.	Sneep"	
Bartlett*	F	1	1/3 - 31	2	1/17-	Fail	ed 2/19	Culaida	
Becker	0		6		FALL	8	3	B	
Blue Point	F	7	<1/17	1+	- 1F/1		ed 2/16	Table Mount	
Box Bar*	S	3	1/4 - 10	2+	2/14 -18	2	2	5/4, 5/8	
Camp Verde	U		2	1/0	-101	0		RatesT	
Canyon	0		2+ 3/12-17		<2/4	0	2		
Cedar Basin	0	17. Rele	ing from nest on 5	let more	darles of resign	sound on	0.	109/01	
Cibecue	0							namint-111	
Cliff	0								
Coldwater	F	3	1/31 - 3/23	2+	3/23 - 4/17	2		15/15 - 6/9	
Coolidge	F 800	4	2/1 - 3/6	1+	3/8 - 4/3	in to land	Failed	14/3 – 5/10	
Devil's Post	U							1001	
Doka*	S	1	< 1/3	2+	1/3 - 1/31	2	2	3/26, 4/8	
Dupont	F	2	2/1 - 3/22	1+	3/22 - 4/20	1+	Failed	4/20 - 5/15	
East Verde	0			v 2000	emma vilvita	short also	a blad ann	Table A Aris	
Fort McDowell*	S	17	1/3 - 31	2+	2/11 - 12	2	2	4/29, 5/2	
Granite Basin	0	ecful Re	Number of Succe	+25					
3	S	4	1/17 – 2/1	2+	2/1 - 3/22	2	100	5/15 - 6/9	
Horse Mesa	One ne	stling dis	sappeared 4/20 - 5/	15 at 5 t 5/15 at	o 8.5 weeks of 8.5 weeks of a	age. Seco ge.	nd nestling	Mean Brood	
Horseshoe*	S	11	1/3 – 31	2	3/3, 3/7	2	2	5/4 - 15, 5/15 - 6/9	
			One nestling last ob	served	on 5/7 at 9.5 to	10.5 wee	ks of age.		
lve's Wash	0								
Ladders	0								
	F	2	2/1 - 3/22	2+	3/22 - 4/20	2		4/20 - 5/15	
Lone Pine	New 3	year old	subadult in pair mic	i-season	of age.	appeared 4	1/20 – 5/15		
	S	1	<2/27	3+	2/27 -3/30	3	1	6/3	
Luna*	One	nestling !	fell out of nest 5/15	- 5/19,	one fell 5/20.	Both eater	by coyotes	s on ground.	
Mule Hoof	U								
Orme*	F	6	<3/10	2+	3/28 -31	2	Fa	iled 4/21	
Perkinsville	S	4	<3/23	1+	<3/27	1	1	5/15 - 6/9	
	F	6	2/1 - 3/22	2+				d 5/15 – 6/9	
Pinal			Nestlings disappe	eared 5/	15 - 6/9 at 6 -	9.5 weeks	of age.		
Pinto	0								
Pleasant*	S	2	1/13 - 29	2+	2/28 - 3/2	2	2	5/23, 5/24	
	S	5	1/17 - 2/1	1+	2/1 - 3/22	1	1	5/15 - 6/9	
n 1	_	S 5 1/17 - 2/1 1+ 2/1 - 3/22 1 1 3/13 - 6 Nestling-last observed on 5/15 at 9 weeks of age.							
Redmond			- Avesuing-last	ODSCIAC	d on stris at s	ALCCUS OF	450.		
Redmond San Carlos	F	3	2/1 - 3/6	1+	d on sris at y	Failed	3/22 - 4/3	5/15 -6/9	

Breeding area status codes (Postupalsky 1974): U=unoccupied, O=occupied, S=successful, F=failed.
 Nest numbers are from Hunt et al. 1992; Driscoll et al. 1992, 1995a, 1995b, 1997, 1998, 1999; Driscoll and Beatty

^{*} Nests monitored by the Arizona Bald Eagle Nestwatch Program.

Table 3 (continue Breeding Area	Status	Nest ²	Incubation Date	Eggs	Hatch Date	Young	Fledged	Fledge Date
Diccuing Area	F	1	1/17 – 2/1	1+	3/13 - 16	1+	Fa	iled 5/5
Sheep*		N	estling taken to reh	ab on 5/		hydration.	Died 5/8.	Manage 1
Suicide	S	1	1/17 - 2/1	3+	3/10 - 22	3	3	>5/15
Sycamore*	F	3	1/3 - 31	1+			ed 3/10	Becker
Table Mountain	F	4	1/31 - 3/23	1+	Me .		3/23 - 4/17	Bine Point
Talkalai	F	7	<3/22	1+	- 8/1		3/22 - 4/3	Вох Ваг*
Tonto*	F	2	1/17 - 2/1	2		Fai	led 4/3	Camp Verde
	S	9	<2/4	2+	3/12 - 17	2	2	5/17
Tower*	One	oung tak	en to rehab after fa	lling fro	m nest on 5/17	. Released	back into	BA on 6/14.
Winkelman	U						0	Cibecue

Breeding area status codes (Postupalsky 1974): U=unoccupied, O=occupied, S=successful, F=failed.

^{*} Nests monitored by the Arizona Bald Eagle Nestwatch Program.

Table 4. Arizona bald eagle productivi Number of BAs	41	Number of Active BAs	27
Number of Occupied BAs	37	Number of Failed Breeding Attempts	14
Number of Eggs	45+	Number of Successful Breeding Attempts	13
Nest Success = 13/37	0.35	Number of Young Hatched	36+
OF DESIGN OF CHILD SHEET SHEET OF THE PERSON	COOK CLE CH C IS CI	Number of Young Fledged	22
Mean Brood Size = 22/13	1.69	Productivity = 0.35 x 1.69	0.59

Nest numbers are from Hunt et al. 1992; Driscoll et al. 1992, 1995a, 1995b, 1997, 1998, 1999; Driscoll and Beatty 1994.

APPENDIX B: BARTLETT BREEDING AREA SUMMARY

Table 5. Observed hu Type	N ¹	W	R	F	L	X	U	D-D ² Total	Total
Small Plane	267	45	5	5		3	8	239 (77.9%)	333 (75.1%)
Helicopter	12	26	1		1	1	1	24 (7.8%)	42 (9.5%)
Canoe/Kayak	5	8	2	1	1			13 (4.2%)	17 (3.8%)
Driver	7	2		1		1	1	8 (2.6%)	12 (2.7%)
Gunshots	5	2	80010-0	B Also		Plantin'T	112 10	8 (2.6%)	9 (2.0%)
OHV	4	1	1			171	mbs1x5x	6 (2.0%)	7 (1.6%)
Hiker	5	2						4 (1.3%)	7(1.6%)
Fisherman	4	anlain	. A. 115	nuG-noi	and old	15 - 1 C	m vi	1 (0.3%)	5 (1.1%)
Birder	a-d 1				W	1		2 (0.7%)	2 (0.4%)
Camper	cost I				-			0	1 (0.23%)
Researcher	0.5-			1				0	1 (0.23%)
Agency Worker	0.1							0	1 (0.23%)
Hunter	1							1 (0.3%)	1 (0.23%)
Shooter	ALL							0	1 (0.23%)
Dog Walker	ATT			-				0	1 (0.23%)
Dog Barking	1							0	1 (0.23%)
Boat w/ Generator				1				0	1 (0.23%)
Rafter					1			1 (0.3%)	1 (0.23%)
Total	316	87	10	10	3	6	11	307	443

¹ Bald eagle behavior, N=none, W=watched, R=restless, F=flushed, L=left area, X=bird flies from perch to attend nest, U=unknown.

² D-D Total=Observations on dawn-to-dusk days.

C	F	ish	Man	nmals	Unk	nown	To	otal
Sex	E'	S²-U	E	S-U	Е	S-U	E	S-U
Male	10	8-2	1	1-0	2	2-0	13	11-2
Female	11	11-0					11	11-0
Total	21	19-2	1	1-0	2	2-0	24	24-2

E=A Single forage event, not the number of attempts during one attempt.
 S-U=Successful - Unsuccessful forage events.

Table 7. Ob	served prey typ	es delivered to	the nest, Bartle	ett BA, Arizon	a, 1999.		
Sex	Fish	Birds	Mammals	Herps	Unknown	Carrion	Total
Male	50	2	4	2	9	2	69 (82.1%)
Female	9 .				3	-	12 (14.2%)
Unknown		2			1	-	3 (3.5%)
Total	59 (70.2%)	4 (4.8%)	4 (4.8%)	2 (2.4%)	13 (15.5%)	2 (2.4%)	84

C			Fish		Birds	Mammals		Total	
Sex	S1	CC	LMB	BL	BC	AC	R	SQ	lotai
Male	22	5	4	2	1	2	11 44	1	38 (84.4%)
Female	4	10				-	Par		5 (11.1%)
Unknown						2	1-01	-	2 (4.4%)
Total	26	5	4	2	1	4	2	1	45

S=sucker spp., CC=channel catfish, LMB=largemouth bass, BL=bluegill, BC=black crappie, AC=American coot, R=western cottontail, SQ=rock squirrel.

Туре	N ¹	W	U	D-D ² Total	Total
Small Plane	4		2	3 (27.3%)	6 (40.0%)
OHV	3			3 (27.3%)	3 (20.0%)
Hunter	2		1 - 1 -	3 (27.3%)	3 (20.0%)
Fisherman	11 -			0	1 (6.6%)
4x4				1 (9.1%)	1 (6.6%)
Canoe/Kayak	1			1 (9.1%)	1 (6.6%)
Total	10	2	3	11	15

Bald eagle behavior, N=none, W=watched, U=unknown.

² D-D Total=Observations on dawn-to-dusk days.

APPENDIX C: BOX BAR BREEDING AREA SUMMARIES

Туре	N ₁	W	R	F	L	В	U	Total
Small Plane	36	7	1				8	53 (34.9%)
Helicopter	18	7	1	-	-		5	31 (20.4%)
OHV	- 11	4	1		-			16 (10.5%)
Driver	11	4		-	-			15 (9.9%)
Horseback Rider	10			1		1	1	14 (9.2%)
Fisherman	7							7 (4.6%)
Canoe/Kayak	5	1		-	-		-	6 (3.9%)
Hiker	4					-		4 (2.6%)
Gunshots	-		3					4 (2.6%)
Tuber							1	2 (1.3%)
Agency Worker	-		-	-	1	-		1 (0.6%)
Total	103	24	6	1			16	152

¹ Bald eagle behavior, N=none, W=watched, R=restless, F=flushed, L=left area, B=bird not in area, U=unknown.

Table 11. Weekend use of USFS road 160,		
Clearance	Vehicles	Occupants
High (Capable of crossing River)	57 (27.0%)	136 (26.8%)
Moderate	93 (44.1%)	238 (46.9%)
Low (Incapable of crossing River)	56 (26.5%)	128 (25.2%)
Unknown	5 (23.7%)	5 (1.0%)
Total	211	507

Sex -	F	ish	Un	known	Total		
Sex	E,	S²-U	E	S-U	E	S-U	
Male	3	3-0	10 -0 -0 -0	-	3	3-0	
Female	2	2-0	2	1-1	4	3-1	
Total	5	5-0	2	1-1	7	6-1	

E=A Single forage event, not the number of attempts during one attempt.
 S-U=Successful - Unsuccessful forage events.

Table 13. Observed h	N ₁	W	R	F	L	U	Total
Small Plane	149	24	mil strong	alone "Alod b	-	93	266 (54.3%)
Helicopter	28	15	1	0 1		15	61 (12.5%)
Hiker	23	3			-	16	43 (8.8%)
Horseback Rider	19	6		1		5	31 (6.3%)
OHV	13	2			1	7	23 (4.7%)
Fisherman	10	4		-	-	7	21 (4.3%)
Driver	7	1		3	- 1	9	20 (4.1%)
Canoe	2	2	-	-	-	2	6 (1.2%)
Gunshots	2	2	2	-		-	6 (1.2%)
Agency Worker		-	1	3	-		4 (0.8%)
Swimmer	2	-	-		-	-	2 (0.4%)
Researcher	_		1			-	1 (0.2%)
Shooter	-		-	1			1 (0.2%)
Birder	-		-	1	-		1 (0.2%)
Cycler							1 (0.2%)
Tuber						1	1 (0.2%)
Picnicker	10H U 10PG .	man nation w	20201721 ,222	Ched, K -rest	none, Www.	ENAMENT, NE	1 (0.2%)
Total	257	59	5	11	2	155	489

¹ Bald eagle behavior, N=none, W=watched, R=restless, F=flushed, L=left area, U=unknown.

Date	Foot	Motorized/Horseback	Total
February	8 (10.8%)	21 (28.0%)	29 (19.4%)
March	11 (14.9%)	26 (34.6%)	37 (24.8%)
	50 (67.6%)	25 (33.3%)	75 (50.3%)
April May	5 (6.8%)	3 (4.0%)	8 (5.4%)
Total	74 (49.7%)	75 (50.3%)	149

Table 15. Ol	served prey types deli	ivered to the nest, Bo	x Bar BA, Arizona, 200	00.	2000
Sex	Fish	Birds	Unknown	Carrion	Total
Male	4		3	androne - Transact	7 (6.9%)
Female	79	3	11	1	94 (93.1%)
Total	83 (82.2%)	3 (3.0%)	14 (13.9%)	1 (0.9%)	101

APPENDIX D: FORT McDowell Breeding Area Summaries

Type	N,	W	R	F	L	X	В	U	D-D ² Total	Total
Small Plane	86	47	- 1		4	1	1	52	150 (69.1%)	192 (64.4%)
Helicopter	12	27	1989	3/1	1	110	11	11	29 (13.4%)	54 (18.1%)
Driver	7	4		1				5	14 (6.5%)	17 (5.7%)
Canoe/Kayak		8	1,481	cDerve	Folt M	Re-est	01 1010	rile- en	7 (3.2%)	10 (3.4%)
Picnicker	Munc	4				12			4 (1.8%)	5 (1.7%)
Gunshots	9 3		(7)	0		100		1	5 (2.3%)	5 (1.7%)
Fisherman		3			-	8			3 (1.4%)	3 (1.0%)
Jets		2				0		1	1 (0.4%)	3 (1.0%)
Camper		3						-	3 (1.4%)	3 (1.0%)
Agency Worker						2			1 (0.4%)	2 (0.7%)
Horseback Riders	1			Heran				1	0	1 (0.3%)
Researcher						1			0	1 (0.3%)
Shooter		1					-	-	0	1 (0.3%)
OHV			1			1			1 (0.4%)	1 (0.3%)
Total	110	99	2	2	6	7	1	70	217	298

Bald eagle behavior, N=none, W=watched, R=restless, F=flushed, L=left area, X=other (no explanation offered), B=bird not in area, U=unknown.

² D-D Total=Observations on dawn-to-dusk days.

Cou	F	ish	Man	nmals	T	Total	
Sex	E,	S²-U	atsultur E saaltass	S-U	E	S-U	
Male	23	11-12			23	11-12	
Female	12	12-0	and I a	1-0	13	13-0	
Total	35	23-12	1	1-0	36	24-12	

E=A Single forage event, not the number of attempts during one attempt.
 S-U=Successful - Unsuccessful forage events.

Table 18. Ol	oserved prey types deli	vered to the nest. For	t McDowell BA, Ariz	ona, 1999.	
Sex	Fish	Birds	Mammals	Carrion	Total
Male	23	я 1 х	7 0	9	34 (41.5%)
Female	41		1	6	48 (58.5%)
Total	64 (78.0%)	1 (1.2%)	2 (2.4%)	15 (18.3%)	82

Cau		Fish		Mammals	Total
Sex	S	CC	Carp	R	Total
Male	5	5	4	- 1	15 (35.7%)
Female	14	9	4		27 (64.3%)
Total	19	14	8	- 1	42

¹ S=sucker spp., CC=channel catfish, C=carp, R=western cottontail.

Type	N,	W	R	F	L	Total
Aircraft	68	3				71 (78.0%)
Kayakers	4		-		-	4 (4.4%)
Gunshots	10034 .6016	metal pagent	KPTCSINGSS, PT	ne, Www.stched	DREAN THAN	3 (3.3%)
Hikers		2	2	2 arwons	2	8 (8.8%)
Chainsaws	3	-	ays.	> xenn-01-timen	10 STOTE 135	3 (3.3%)
Horseback Riders	1	1				2 (2.2%)
Total	79	6	2	2 10 1000	2	91

¹ Bald eagle behavior, N=none, W=watched, R=restless, F=flushed, L=left area.

Sex	served prey types deli Fish	Birds	Mammals	Unknown	Total
Male	13	1	1	17	32 (76.2%)
Female	5	ing one auempt.	most of encubrs on	300 100 150Va 9881	10 (23.8%)
Total	18 (42.9%)	1 (2.4%)	1 (2.4%)	22 (52.4%)	42

APPENDIX E: HORSESHOE BREEDING AREA SUMMARY

Table 22. Observed I	N' X	W	R	WF	L	Total
Cars/Trucks	453			T	-	453 (78.5%)
OHV	82	-				82 (14.2%)
Small Plane	24	1		-2	-	25 (4.3%)
Jets	7		3 -			10 (1.7%)
Hiker		1		1 21		2 (0.3%)
Agency Worker	1			21		2 (0.3%)
Helicopter		-			. 1	1 (0.2%)
Hunter/ Gunshot		1			-	1 (0.2%)
Kavakers	1	1			-	1 (0.2%)
Total	567	4	3	2	1	577

¹ Bald eagle behavior, N=none, W=watched, R=restless, F=flushed, L=left area.

Sex	Fish	Birds	Unknown	Total
Male	33	brid 1	11 Fish	45 (71.4%)
Female	8 U-8	3 1	6	14 (22.2%)
Unknown	2 2	11-	2 50	4 (6.4%)
Total	43 (68.3%)	1 (1.6%)	19 (30.2%)	63